

tbp electronics



quality
reliability
price
flexibility
service

our operational management's five elements

quality

A person in a white lab coat is working in a cleanroom environment. The background features perforated metal walls that create a grid of light patterns. The person is looking down at a device or tool they are holding. The overall scene is brightly lit, emphasizing the clean and professional atmosphere of the facility.

"tbp's DfM & DfT
guarantees our
product quality and
saves costs"

quality is our standard

quality

The products you outsource with us are standardly of the best quality. To bring your product to a higher platform we offer various services before and after production itself.



You can take your advantage of our experience. tbp electronics has much knowledge of electronics production, which translates into quality. We gladly share this expertise with you.

Quality from the basis

Your product's quality starts with its design. Our specialists optimise a board's layout and its testing programs, which save you worries, time and money later on.

Tests to guarantee quality

Several standard tests are available for testing your electronics, but if you wish, our specialists can make a tailor made testing system. We have done so for several clients for some considerable time.

Traceable

Obviously, you can follow your orders if you wish. To that end the module 'order tracking' on our website is available.

Processes aimed at quality

All our employees follow courses in order to bring their knowledge and attention on quality to unique heights. It has translated into many certifications and - even more important - it means that you can always rely on a flawless quality of your products.

"tbp electronics' DfM & DfT guarantees our product quality and saves costs"



further information:
www.tbp.eu

reliability



clear lead time in advance

always up to date by online order tracking

just-in-time but never late

We always give you a realistic lead time. When your product is being assembled, we keep you real-time up to date of its progress, so you will know exactly where you stand.



reliability

Our expertise in purchase and production enables us to give very accurate predictions of lead times. If you want something last-minute, then we will do our utmost and we will always give you a fair lead time.

Order tracking

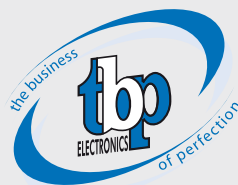
Our real-time order tracking system ensures you a full understanding of your current orders. You can log on online at our website for order tracking. This enables you wherever you are to keep up to date of the stage in which your product is.

Components' lead times

In practice it appears that components' lead times are most time-consuming. Therefore, we have a team ready to take perfectly over purchase from you. We are keeping adequate components in stock. If you wish, you may ask in the design stage of your product for our components stock.

This ensures that these components will not have to be purchased, which may lead to a strong cut in lead times.

"24/7 up-to-date lead times is a very reassuring thought!"



further information:
www.tbp.eu

price



transparent price policy

purchase power

automation saves
labour costs

partners in low cost
countries

a fair and competitive price

From tbp electronics you may expect a clear and competitive price. We are realising savings of costs in the purchase of components, in the production and due to our extra service in pre-production and post-production



price

Transparent price policy

Our quotations are transparent. We make clear agreements on purchase benefits and added value. With it we guarantee a good price and certainty beforehand.

Savings at the purchase of components

In the production of electronics the larger part of cost saving can be realised at the purchase of boards and components. We are on good terms with suppliers worldwide and as we buy in bulk, we are often able to make a good price.

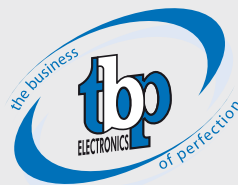
High labour costs? No!

We have automated all production processes to a large extent. The slightly higher labour costs in Western Europe with respect to low cost countries translate straightly into the expertise of our employees.

Partners in low cost countries

On the basis of your product we consider whether our own production sites or our partners in low cost countries are most suitable to make your product. This may mean that e.g. we produce your electronics in the Benelux, but that its manual completion will take place at another site. This makes that you are always certain of an excellent price/quality ratio!

tip: use our 'DfX' for considerable cost saving!



further information:
www.tbp.eu

flexibility

flexibility in volumes

quick start

quick reaction in case of changes



flexibility



We listen to your wishes. Maybe you want to place an order at the last moment or you want to make some changes. tbp electronics' operational management is fully equipped for it and we gladly help you.

From prototype to large batches

We offer a large capacity and are equipped for all your needs. Both for prototypes and for complex large batches and anything in between you are at the right place. It figures that your order quantities will depend on the life cycle of the product. We are able to produce in each of those stages your orders in one of our three sites.

Quick start

Your competitors' technical innovations make it important that you should take your product as quickly as possible on the market. We are able to start your production very quickly. This makes that you always keep ahead in technology and you will be able to introduce your products even faster.

Changes in design during production?

No problem!

It may happen that you want to make an adjustment to the design while its production is running already. No problem! Our project managers will take care of a fast realisation of your modification.

“Why should I turn to another supplier when the amounts become very large? At tbp electronics I'm always at the right place!”



further information:
www.tbp.eu

service

central sites

easy to reach

quick and adequate
problem solving



just what you might expect

service

Contentment of our clients is our main goal. Firstly, we take care that you receive your products by appointment.

Furthermore we take care and try to offer just that little bit of extra.



Always near you

We aspire to a close cooperation with our clients. Our employees speak your language, in both senses of the word. Due to the fact that we are nearby you may always come and visit us to talk business and conversely we gladly do the same. It saves travelling time, much energy and money with regard to suppliers in the low cost countries.

We conform to you

As a client of tbp electronics you may expect frequently a client contentment study. With it we consider in which field strategic adjustments are needed to offer even more service. Furthermore, there are testing points that include quality and reliability of delivery we are keeping an eye on carefully.

We solve problems quickly and adequately

Even tbp electronics makes mistakes. We attach much value to how we solve it! In the unlikely event of problems, you are always welcome. We take care that the problem is solved quickly and adequately.

“It is understandable that now and again a problem presents itself. I attach value in particular to the fact that tbp electronics solves it quickly!”



further information:
www.tbp.eu



site Geel, Belgium

site Geel, Belgium

pre-production

design
electronic design
mechanical design

layout
CAD

design for manufacturing
PBA analysis tools

design for testing

purchase
components
PCBs
mechanical parts

production

lead-free
leaded (on dispensation)

smd-assembly
6 smt-lines (incl. Fuji NXT)
stencil prints
glue and paste jetting
from 0201 to BGA 1652
reflow and curing

conventional assembly
soldering
(selective) flow-soldering
manual soldering

integration/box building
dry press fit
heat sink
cabinet construction

post-production

testing
AOI
in-circuit testing
flying probe
boundary scan
X-ray inspection
visual testing
functional testing
system-/integration testing
burn-in facilities

distribution
stockroom
worldwide transport
documentation

repair
management spare parts
retrofitting
refurbishing
advanced swapping

facts

> 300 employees
100 million euro turnover
50 clients
30,000 m² production facilities

qualifications

ISO 9001:2000
ISO 14001:2004
TL 9000

clients' portfolio

AGFA-Gevaert, Alcatel-Lucent,
ASML, Barco, Honeywell, Océ,
Philips Medical, Punch and many
others



further information:
www.tbp.eu



site Dirksland, the Netherlands

site Dirksland, the Netherlands

pre-production

design

electronic design
mechanical design

layout

CAD

design for manufacturing

PBA analysis tools

design for testing

purchase

components
PCBs
mechanical parts

production

lead-free
leaded (on dispensation)
clean-room (if desired)

smd-assembly

2 in-line smt-lines
3 stand alone smt-lines
stencil prints
glue and paste jetting
01005 to BGA 56x56mm/pitch 0.3
reflow and curing
die & wire bonding (future)

conventional assembly

press fit

soldering

(selective) flow-soldering
manual soldering
hot air & vapour phase

integration/box building

cabinet construction

post-production

testing

AOI
in-circuit testing
flying probe
boundary scan
X-ray inspection
functional testing
system-/integration testing
burn-in facilities

conformal coating

selective in-line coating

distribution

stockroom/expedition
worldwide transport

repair

management spare parts
retrofitting
refurbishing
advanced swapping

facts

> 120 employees
25 million euro turnover
40 clients
7,000 m² production facilities

qualifications

ISO 9001:2000 & 14001
AQAP 2120:2003
Tüv IEC 61508

clients' portfolio

ASML Netherlands, Honeywell,
Wärtsilä, Philips Medical,
Woodward Governor, Bosch
and many others



further information:
www.tbp.eu